

**MICROORGANISMS AND PROCESSES FOR ENHANCED  
PRODUCTION OF PANTOTHENATE**

**Abstract of the Disclosure**

5                   The present invention features improved methods for the enhanced  
production of pantoate and pantothenate utilizing microorganisms having modified  
pantothenate biosynthetic enzyme activities and having modified  
methylenetetrahydrofolate (MTF) biosynthetic enzyme activities. In particular, the  
invention features methods for enhancing production of desired products by increasing  
10 levels of a key intermediate, ketopantoate, by increasing enzymes or substrates that  
contribute directly or indirectly to its synthesis. Recombinant microorganisms and  
conditions for culturing same are also are featured. Also featured are compositions  
produced by such microorganisms.